

Figure 1

2/19

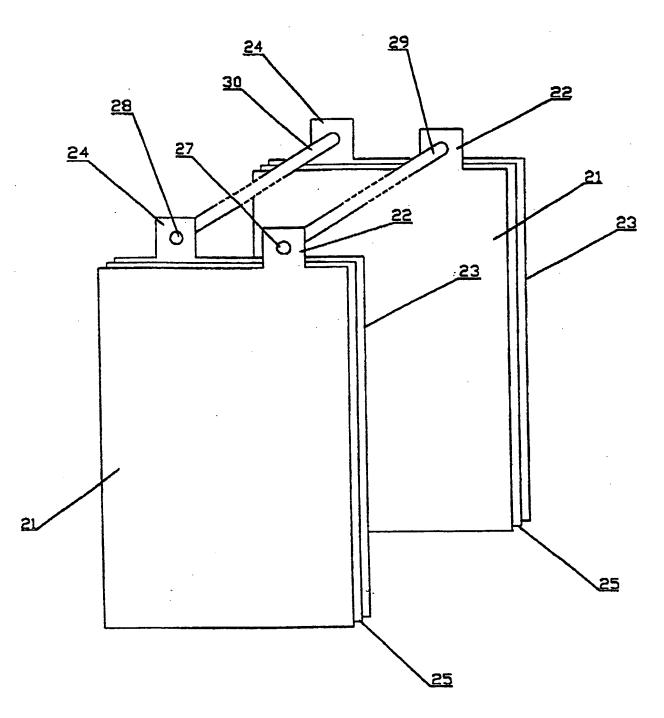


Figure 2

WO 00/34964 PCT/AU99/01081

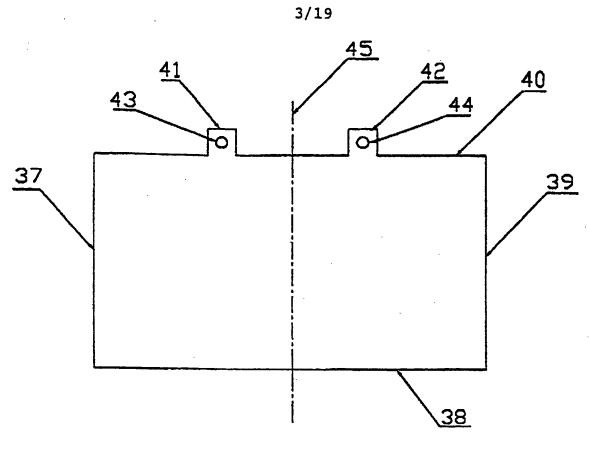


Figure 3

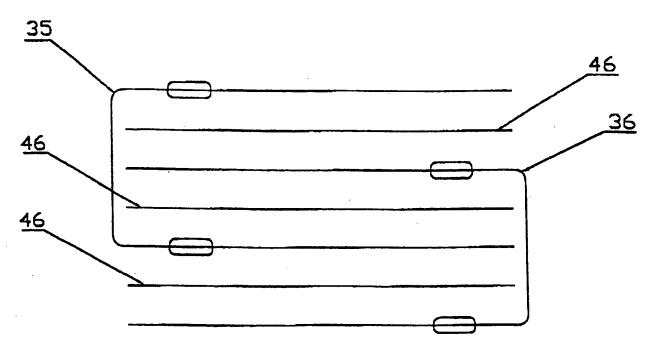
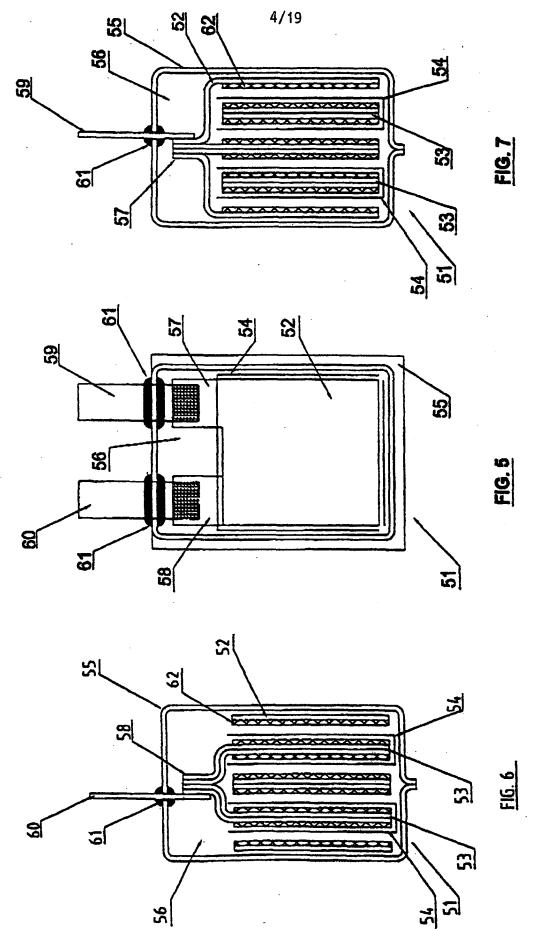
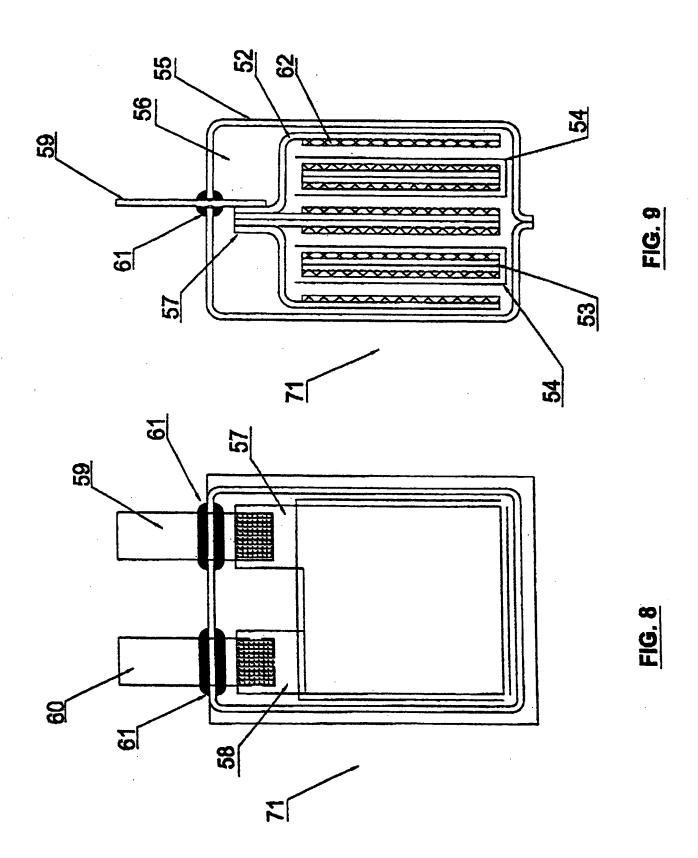
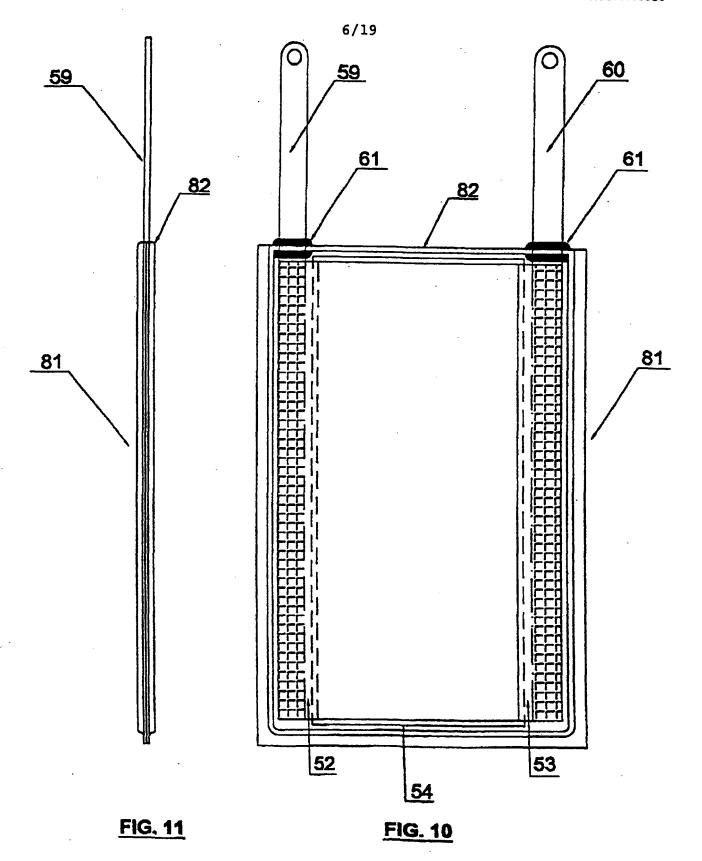
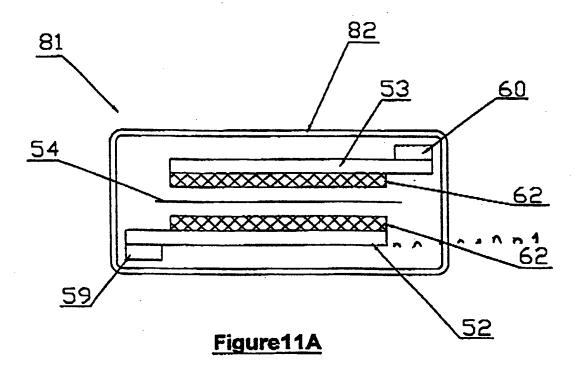


Figure 4









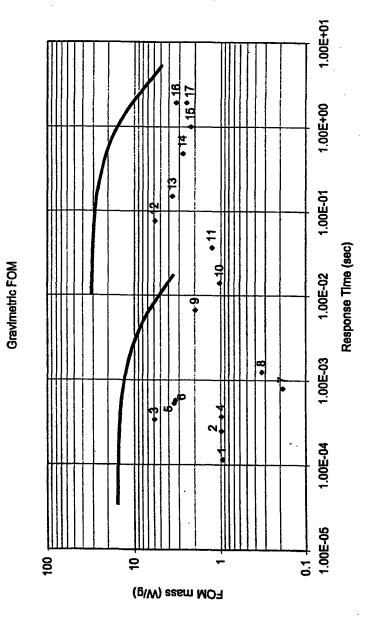


Figure 12

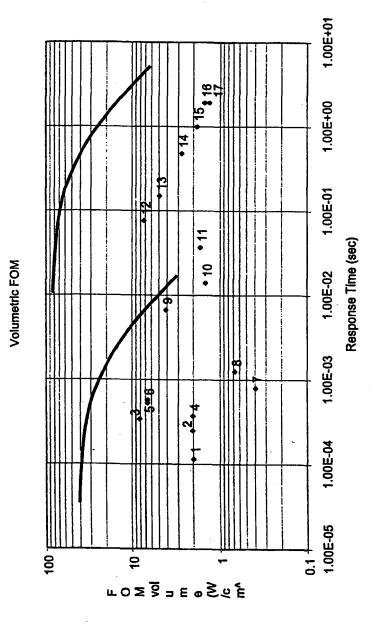
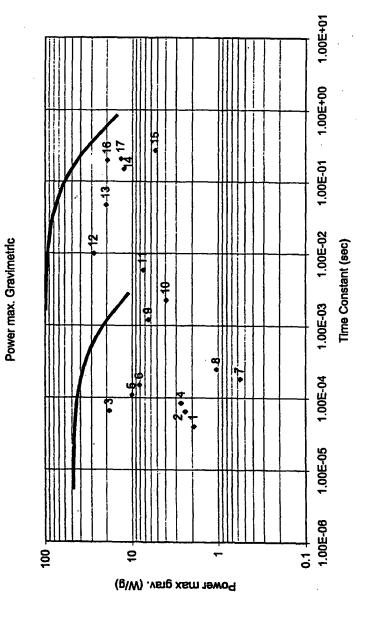


Figure 13



ligure 14

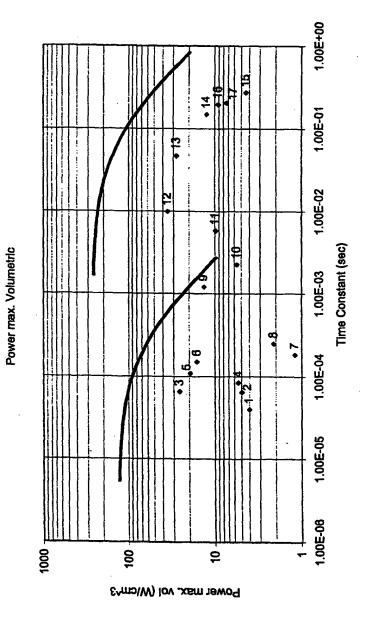


Figure 15

thickness	L	power (W/g)	time const power (W/g) power (W/cc) resp time FOMgrav FOMvol	resp time F	OMgrav	FOMvol
HF-3						
₹.	0.00000544	48.64	128.52	0.000	15.48	40.91
2	0.00001088	48.32	125.46	0.0001	15.38	39.94
5	0.0000272	47.38	117.1	0.0002	15.08	37.27
5	0.0000544	45.89	105.39	0.0003	14.61	33.55
20	0.0001088	43.17	87.83	0.0007	13.74	27.96
50	0.000272	36.46	58.55	0.0017	11.61	18.84
100	0.000544	29.3	37.64	0.0034	9.33	11.98
200	0.001088	20.9	21.96	0.0068	6.65	6.99
200	0.00272	11.24	9.76	0.0171	3.58	3.11
cap-XXHIPo	20					
=	0.001653	98.31	261.02	0.0104	31.29	83.09
7	0.003306	97.28	254.81	0.0208	30.96	81.11
2	0.008265	94.24	237.82	0.0519	30.00	75.70
10	0.01653	89.62	214.04	0.1039	28.53	68.13
20	0.03308	81.6	178.77	0.2077	25.97	56.90
20	0.08265	64.34	118.91	0.5193	20.48	37.85
100	0.1653	47.56	76.44	1.0386	15.14	24.33
200	0.3306	31.26	44.59	2.0772	9.95	14.19
200	0.8265	15.42	19.82	5.1931	4.91	6.31
•						

Figure 16

-
_
H
굮
\cong
Ξ,

)0/34	1964	4										13/	19)	٠.							F	C	T/A	U9	9/01(
Thickne		i				12		24	12	Š	S.	42	ç		12	8	3	12	12	. 12	60	12	98	. 38	0/400	0//0
•	W/GG					4.02		4.95	25.78	44	D.4.0	19.57	18 20	7.0	1.20	2 13	? i	13.44	5.64	9.85	35.24	27.78	12.50	4.40	9 14 80/100	7.38 30/70
Pgrav max	kW/ka					1.93		2.39	18.57	6	4.04	10.10	8 14	5	0.57	1 05	2	6.40	3.93	7.40	28.30	20.42	12.50	6.30	19 73	13.61
	11818100 1880					3.98E-05		8.44E-05	6.53E-05	10 10 10	0.40E-03	1.08E-04	1 49F-04		1.83E-04	2 48E-04	1	1.20E-03	2.24E-03	6.81E-03	9.92E-03	4.88E-02	1.49E-01	2.73E-01	1.98E-01	2.06E-01
FOM Vol	W/cc		3.02	1.10	3.20	2.00		2.04	8.20	60	Z. 2	99.9	8 66	9	0.40	0.68		4.13	1.48	1.69	7.26	4.90	2.71	1.83	1.61	1.33
FOM	kW/kg	•	2.06	0.98	96.0	96.0		0.99	5.91	000	0.9	3.44	3.33	}	0.18	0.34	}	1.97	1.03	1.27	5.83	3.60	2.71	2.20	3.28	2.46
Response	9 9			6.30E+00	9.70E-02	1.15E-04		2.50E-04	3.40E-04	2 70E.04	20.0	5.28E-04	5.71E-04	!	8.00E-04	1.25E-03		6.67E-03	1.40E-02	3.70E-02	7.63E-02	1.50E-01	4.80E-01	1.00E+00	1.92E+00	1.92E+00
Size	wm x mm x	E	11.2×30.5	33.6 x 17.1 x 63	17 × 17 × 6	110 x 100 x	0.32	110 × 100 × 0.32	110 × 100 ×	0.38	0.32	110 × 100 × 0.32	110 x 100 x	0.32	110 × 100 ×	0.32 110 × 100 ×	0.32	110 × 100 × 0.32	110 × 100 × 0.38	85 x 53 x 2	40 x 35 x 7	50 x 50 x 5	50 × 50 × 10	190 × 110 × 18	91 x 95 x 1.75	91 x 95 x 1.75
Volume	ပ္မ	:			4800.0 1440.00	3.62		3.83	4.18	200	3	3.52	3.52		3.83	3.85		3.41	3.96	9.01	9.80	12.50	25.00	355.30	15.13	15.13
	0	•	4.4	34.0	4800.0	7.3		7.6	6.8	4	Ď,	9.8	7.0	2	7.7	7.8	:	7.2	5.7	12.0	12.2	17.0	25.0	295.0	7.0	8.2
Voltage	>)	2.5	2.3	15.0	2.5		15	2.5	c	 	2.5	20	}	2.5	25	}	2.5	2.5	2.6	5.0	2.5	2.5	2.5	2.6	2.5
Resistand	• milliohms			•		110.43		86.98	14.60	78.03	70.03	22.68	27.25		368.50	100.80	2	34.10	70.00	17.60	18.10	4.50	6.00	1,00	11 30	14.00
Capacitanc Resistanc Voltage Mass	9 IL	•				0.00036		0.00074	0.00450	4	0.001	0.00478	0.00548		0.00051	0.00120	2000	0.03520	0.03200	0.33000	0.54800	10.40000	29.70000	272.50000	17 34000	14.68000
			Prior Art 1	Prior Art 2	Prior Art 3	1 HF-7		2 HF-9	3 HF-3	1	4 NF-11	5 HF-5	8 UE 13	2	7 HF-18	6 UE 17		9 HF-18	10 HF-2	11 cap-XX	12 cap- xxHIPo	13 cap-XX.10	14 cap-XX 30	15 cap-	XX,250	17 Wed

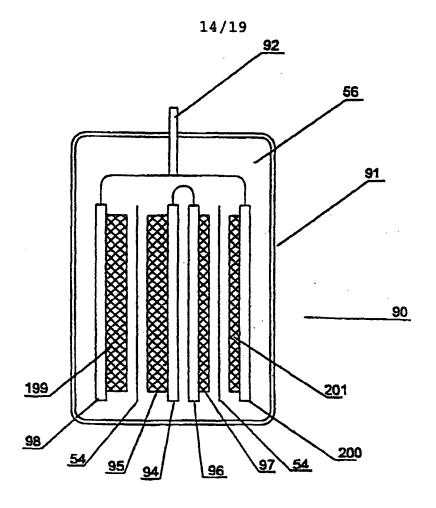
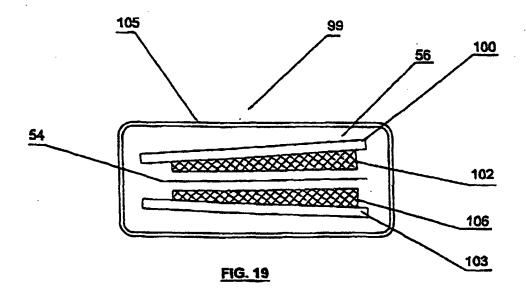


FIG.18



6 5					7		8		12		24		36		2	•	2		2		۰,
Thickne	4				~		-		-		7		ന	-	-		-		÷		~
Pvol max Thicknes		W/cc			4.54		25.96		3.85		5.02		5.37		19.57		15.82		1.14		12.00
Pgrav	max	kW/kg		,	3.19		16.90		1.88		2.38		2.65		8.98		7.81		0.52		£ 7.4
Time	constant	280		1	1.14 3.05E-03		7.63 1.15E-04		4.15E-05		8.60E-05		1.44 8.91E-05		4.71 1.09E-04		4.71 1.81E-04		2.03E-04		1 30E-03
FOM Vol		W/cc		•	1.14		7.63		1.35		1.44		1.44	•	4.71		4.71		0.26	,	286
FOM	mass	kW/kg		,	0.80		4.97		0.67		0.68		0.71		2.18		2.33		0.12		1 28
Respons	e Time	200			1.94E-02		5.26E-04		1.35E-04		2.50E-04		3.85E-04		5.26E-04		5.88E-04		9.09E-04		
Size		x mm	XEE	E E	110 × 100	× 0.36	4.18 110 x 100	× 0.38	110 x 100	x 0.32	110 x 100	x 0.32	110 × 100	x 0.32	110 x 100	× 0.32	110 × 100	x 0.32	110 × 100	× 0.32	440 4 400
Volume		9			3.96		4.18		3.52		3.63		3.85		3.62		3.52		3.63		77 6
Mass		5			6.6		6.4		7.1		7.7		7.8		7.7		7.1		8.1		4
Voltage	1	>			2.5		2.5	٠	2.5		2.5		2.6		2.5		2.5	•	2.5		•
Capacita Resistan Voltage	83	millohm	•		87.00		14.40		112.24		85.78		75.52		22.68		28.08		376.60		0000
Capacita	nce				0.03500		0.00800		0.00037		0.00077		0.00118		0.00479		0.00574		0.00054		HE 10 0 03400 38.20 2.5 7.2 3.41 110 x 100 7.14E-03 1.28 2.65 1.30E-03 5.71 12.00 12
					HF-1		IF.4		HF-8) :	HF-10	:	HF-12	! :	11.8) !	HF-14		HF.15	2	

FIGURE 20

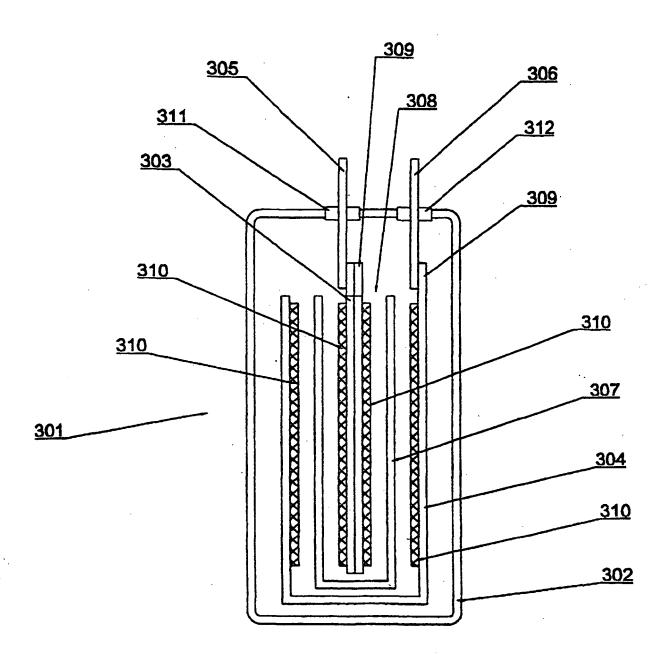
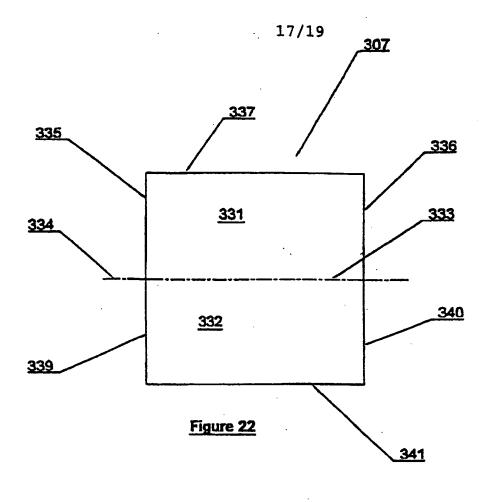
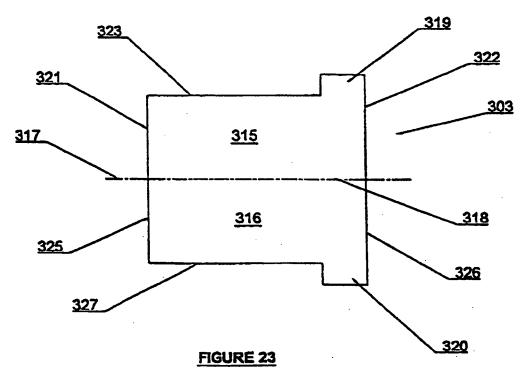


FIGURE 21

WO 00/34964 PCT/AU99/01081





1

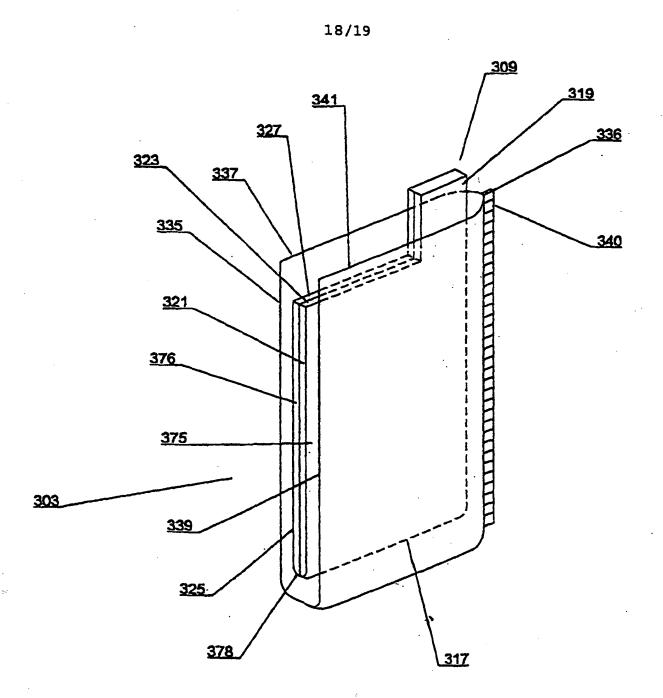


Figure 24

19/19

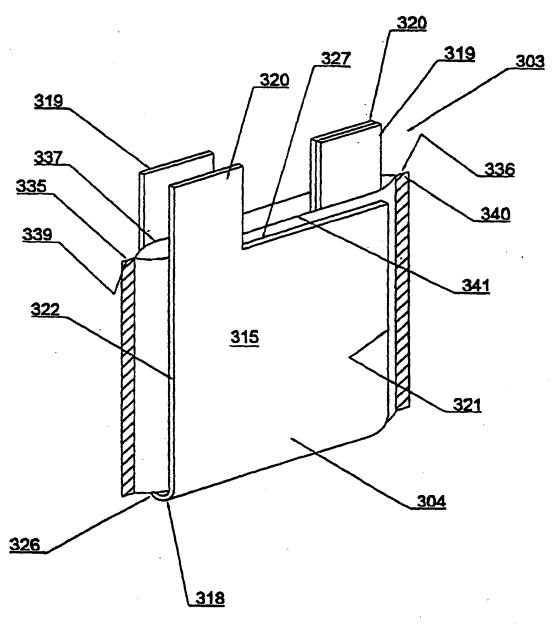


FIGURE 25